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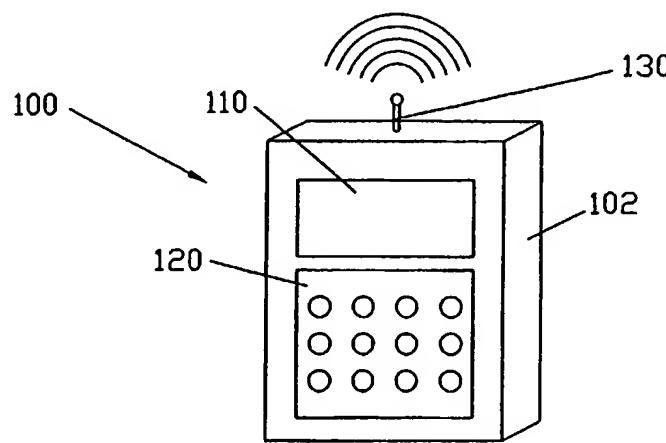
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(54) Title: MEDICAL APPARATUS REMOTE CONTROL AND METHOD



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(57) Abstract: A system for providing medical treatment to a patient, including a medical treatment apparatus and a remote control device. The medical treatment apparatus has a local processor, and a local communication element connected to the local processor, while the remote control device includes a remote processor, user interface components connected to the remote processor, and a remote communication element connected to the remote processor and adapted to communicate with the local communication element of the medical treatment apparatus in a wireless manner such that information can be transferred between the local processor and the remote processor. The remote control device also includes at least two separate power supplies connected to the remote processor.

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## INTERNATIONAL SEARCH REPORT

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PCT/US 01/50581A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 A61B5/00 A61M5/172

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 A61B A61M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 10628 A (MINIMED INC) 2 March 2000 (2000-03-02)	1, 3-15, 36-47, 68-73
A	page 8, line 13 -page 14, line 29  page 41, line 27 -page 42, line 31; tables 1-4, 17 ---- -/-	16-34, 48-62, 74-93

 Further documents are listed in the continuation of box C. Patent family members are listed in annex.

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International Application No  
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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 19887 A (MINIMED INC) 13 April 2000 (2000-04-13)	1, 3, 4, 6, 10-15, 24, 26, 28, 29, 36-38, 42-47, 56, 58, 60-62, 67-73, 76, 77, 82
A	page 5, line 18 -page 26, line 20; tables 1-14	2, 5, 16-22, 25, 34, 35, 48-54, 66, 74, 79, 80, 92, 93
A	WO 00 29047 A (KIM YOON OK ;CHO OK KYUNG (DE); PHISCIENCE GMBH ENTWICKLUNG VO (DE) 25 May 2000 (2000-05-25) page 4, line 15 -page 11, line 21	1-93
A	US 5 507 288 A (BLASBERG PETER ET AL) 16 April 1996 (1996-04-16)	1-15, 36-48, 68-74
	column 5, line 16 -column 8, line 60; tables 1, 2	
E	WO 02 20073 A (INSULET CORP) 14 March 2002 (2002-03-14) page 8, line 1 -page 28, line 21; tables 1-13	1-93
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## INTERNATIONAL SEARCH REPORT

Information on patent family members

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Patent document cited in search report	Publication date	Patent family member(s)		Publication date
WO 0010628	A 02-03-2000	AU 5681599 A		14-03-2000
		EP 1109586 A2		27-06-2001
		JP 2002523149 T		30-07-2002
		US 2002107476 A1		08-08-2002
		WO 0010628 A2		02-03-2000
		US 2002002326 A1		03-01-2002
WO 0019887	A 13-04-2000	AU 6255699 A		26-04-2000
		EP 1119285 A1		01-08-2001
		WO 0019887 A1		13-04-2000
		US 2002002326 A1		03-01-2002
WO 0029047	A 25-05-2000	DE 19853035 A1		25-05-2000
		DE 19920896 A1		09-11-2000
		WO 9932174 A1		01-07-1999
		WO 0029047 A1		25-05-2000
		EP 1131118 A1		12-09-2001
US 5507288	A 16-04-1996	DE 4415896 A1		09-11-1995
		AU 674474 B2		19-12-1996
		AU 1763495 A		07-12-1995
		CA 2148569 A1		06-11-1995
		CN 1128353 A		07-08-1996
		EP 0680727 A1		08-11-1995
		FI 952131 A		06-11-1995
		HU 75243 A2		28-05-1997
		IL 113569 A		04-01-1998
		JP 7311196 A		28-11-1995
		KR 163476 B1		15-12-1998
		NO 951754 A		06-11-1995
		NZ 272000 A		24-04-1997
		ZA 9503585 A		04-11-1996
WO 0220073	A 14-03-2002	AU 8857501 A		22-03-2002
		WO 0220073 A2		14-03-2002
		US 2002072733 A1		13-06-2002

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